

### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1-10. (Canceled)

11. (Previously Presented) A method comprising:

determining, by a computing system, whether a workload executed or being executed by a platform resembles a reference workload, based at least in part on one or more performance events observed from monitoring the platform's execution of the workload; and

if the workload is determined to resemble the reference workload, performing, by the computing system, a selected one of

selecting, by the computing system, a set of one or more configuration parameter values pre-selected for the platform to execute the resembled reference workload, and

providing, by the computing system, information about the determined resembled reference workload to facilitate the selection of the set of one or more configuration parameter values pre-selected for the platform to execute the determined resembled reference workload.

12. (Original) The method of claim 11, wherein the one or more reference workloads comprise at least a selected one of a route look-up workload, a OSPF workload, a JPEG codec workload, a 3DES encryption/decryption workload, an AES encryption/decryption workload, an IP packet forwarding workload, a H.323 speech codec workload.

13. (Original) The method of claim 11, wherein said determining comprises determining a correlation metric between the workload and the reference workload, based on the one or more performance events observed during said

monitoring, and observed during at least one prior execution of the reference workload;  
and

determining whether the correlation metric exceeds a correlation threshold.

14. (Original) The method of claim 11, wherein the method further comprises performing a selected one of

receiving the one or more performance events observed during said monitoring;  
and  
said monitoring.

15. (Original) The method of claim 11, wherein

the system comprises the platform; and  
the method further comprises executing the workload, and performing said monitoring.

16. (Original) The method of claim 11, wherein

said performing comprises selecting a set of one or more configuration parameter values pre-selected for the platform to execute the determined resembled reference workload; and

the method further comprises performing a selected one of  
applying the selected set of one or more configuration parameter values to configure the platform, and  
providing information about the selected set of one or more configuration parameter values to facilitate application of the selected set of one or more configuration parameter values to configure the platform.

17. (Currently Amended) A method comprising:

generating, by a computing system, a lookup index to one or more sets of configuration parameter values, based at least in part on one or more performance events observed in associated with a platform's execution of a workload, wherein said

generating includes evaluating an index function in view of the one or more performance events observed; and

selecting, by the computing system, one of one or more pre-established sets of configuration parameter values, based at least in part on the generated lookup index, for application to configure the platform.

18. (Canceled)

19. (Original) The method of claim 17, wherein the method further comprises performing a selected one of

receiving the one or more performance events observed; and  
monitoring said execution of the workload by the platform.

20. (Original) The method of claim 17, wherein the method further comprises performing a selected one of

providing information about the selected set of one or more configuration parameter values to facilitate application of the selected set of one or more configuration parameter values to configure the platform; and  
applying the selected set of one or more configuration parameter values to configure the platform, the platform being a part of the system.

21. (Original) An apparatus comprising

storage medium having stored therein programming instructions designed to enable the apparatus to

determine whether a workload executed or being executed by a platform sufficiently resembles a reference workload, based at least in part on one or more performance events observed from monitoring the platform's execution of the workload, and  
if the workload is determined to sufficiently resemble the reference workload, perform at least a selected one of

selecting a set of one or more configuration parameter values pre-selected for the platform to execute the determined resembled reference workload, and  
providing information about the determined resembled reference workload to facilitate the selection of the set of one or more configuration parameter values pre-selected for the platform to execute the determined resembled reference workload; and  
at least one processor coupled to the storage medium to execute the programming instructions.

22. (Original) The apparatus of claim 21, wherein said programming instructions are designed to enable the apparatus to perform said determine by

determining a plurality of correlation metrics between the workload and the reference workload, based on the one or more performance events observed during said monitoring, observed during at least one prior execution of the reference workload; and

determining whether at least one of determined correlation metrics exceeds a correlation threshold.

23. (Original) The apparatus of claim 21, wherein the programming instructions are further designed to perform a selected one of

receiving the one or more performance events observed during said monitoring;  
monitoring the execution of the workload to observe the one or more performance events;

providing information about the selected set of one or more configuration parameter values to facilitate application of the selected set of one or more configuration parameter values to configure the platform; and

applying the selected set of one or more configuration parameter values to configure the platform.

24. (Currently Amended) An apparatus comprising:  
storage medium having stored therein programming instructions designed to enable the apparatus to  
generate a lookup index to one or more sets of configuration parameter values, based at least in part on one or more performance events observed in associated with a platform's execution of a workload wherein said generate includes evaluating an index function in view of the one or more performance events observed; and  
select one of one or more pre-established sets of configuration parameter values, based at least in part on the generated lookup index, for application to configure the platform; and  
at least a processor coupled to storage medium to execute the programming instructions.
25. (Canceled)
26. (Currently Amended) The apparatus of claim 245, wherein the programming instructions are further designed to enable the apparatus to perform a selected one of  
receiving the one or more performance events observed;  
monitoring said execution of the workload by the platform;  
providing information about the selected set of one or more configuration parameter values to facilitate application of the selected set of one or more configuration parameter values to configure the platform; and  
applying the selected set of one or more configuration parameter values to configure the platform, the platform being a part of the system.
27. (Previously Presented) A system comprising:  
a platform to execute a workload;  
a monitor, either coupled to or an integral part of the platform, to observe one or more performance events associated with the platform's execution of the workload; and

an analyzer coupled to the monitor to receive the one or more performance events observed, and in response, at least contribute to selecting if possible, a set of one or more configuration parameters values for application to configure the platform, based at least in part on the one or more performance events observed,

wherein the analyzer is adapted to at least contribute by determining whether the workload resembles one of one or more reference workloads, based at least in part on the received one or more performance events observed, the resembled reference workload being employed to facilitate said selection of one of the one or more configuration parameter values.

28. (Canceled)

29. (Previously Presented) The system of claim 27, wherein the analyzer is adapted to at least contribute by generating a lookup index to one or more sets of configuration parameter values, to facilitate said selection of one of the one or more configuration parameter values, based at least in part on the received one or more performance events observed.

30. (Original) The system of claim 27, wherein  
the platform comprises a first networking interface; and  
the system further comprises a computing device hosting the analyzer, the computing device including a second networking interface to couple the computing device with the platform via a network connection.

31. (Currently Amended) An article of manufacture comprising:  
a machine readable medium; and  
a plurality of programming instructions on the machine readable medium, designed to enable an apparatus to observe one or more performance events associated with a platform's execution of a workload or receive the one or more performance events observed, and to at least contribute in selection of one or more configuration parameters values for application to configure the platform, based at least

in part on the one or more performance events observed, wherein the at least contributing includes the platform

determining whether the workload resembles one of one or more reference workloads, based at least in part on the received one or more performance events observed, the resembled reference workload to be employed to facilitate said selection of one or more configuration parameter values; or

generating a lookup index to one or more sets of configuration parameter values based at least in part on the received observed one or more performance events, to facilitate said selection of one of the one or more configuration parameter values, wherein said generating includes evaluating an index function in view of the one or more performance events observed.

32-33. (Canceled)

34. (Previously Presented) The method of claim 11, wherein said monitoring the platform's execution of the workload comprises monitoring at least a selected one of a processor performance counter, an OS performance counter, and a chipset performance counter, while the platform executes the workload.

35. (Previously Presented) The method of claim 11, wherein the one or more configuration parameter values comprise one or more of processor configuration parameter values, OS configuration parameter values, and chipset configuration parameter values.

36. (Previously Presented) The method of claim 17, wherein said monitoring the platform's execution of the workload comprises monitoring at least a selected one of a processor performance counter, an OS performance counter, and a chipset performance counter, while the platform executes the workload.

37. (Previously Presented) The method of claim 17, wherein the one or more configuration parameter values comprise one or more of processor configuration parameter values, OS configuration parameter values, and chipset configuration parameter values.